

#3  
9P 1732

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants: David B. Russell, Walter Henry Zengerle III, Peter Charles Conway, James F. Bredt, Benjamin Daniel Sweet-Block and Robert Anthony Phillips

Application No.: 09/851,502

Group Art Unit: 1732

Filed: May 8, 2001

Examiner:

Title: Method and Apparatus for Prototyping a Three-Dimensional Object



CERTIFICATE OF MAILING	
I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as First Class Mail in an envelope addressed to Assistant Commissioner for Patents, Washington, D.C. 20231	
on 1/3/02	<i>Delina Ranucci</i>
Date	Signature
<i>DELINA RANUCCI</i>	
Typed or printed name of person signing certificate	

RECEIVED  
FTD-5 2002  
TECHNOLOGY CENTER 1700

INFORMATION DISCLOSURE STATEMENT

Assistant Commissioner for Patents  
Washington, D.C. 20231

Sir:

This Information Disclosure Statement is submitted:

- ☐ under 37 CFR 1.129(a), or  
(First/Second submission after Final Rejection)
- ☒ under 37 CFR 1.97(b), or  
(Within any one of the following time periods: three months of filing national application (other than a CPA) or date of entry of the national stage in an international application; or before the mailing date of a first office action on the merits in a non-provisional application, including a CPA, or a Request for Continued Examination).
- ☐ under 37 CFR 1.97(c) together with either:
- ☐ a Statement under 37 CFR 1.97(e), as checked below, or
- ☐ a \$180.00 fee under 37 CFR 1.17(p), or  
(After the 37 CFR 1.97(b) time period, but before final action or notice of allowance, whichever occurs first)
- ☐ under 37 CFR 1.97(d) together with:
- ☐ a Statement under 37 CFR 1.97(e), as checked below, and
- ☐ a \$180.00 fee under 37 CFR 1.17(p), or  
(Filed after final action or notice of allowance, whichever occurs first, but on or before payment of the issue fee)
- ☐ under 37 CFR 1.97(i):  
Applicant requests that the IDS and cited reference(s) be placed in the application filewrapper.  
(Filed after payment of issue fee)

Statement Under 37 CFR 1.97(e)

- ☐ Each item of information contained in this Information Disclosure Statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Information Disclosure Statement; or
- ☐ No item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the undersigned, after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in 37 CFR 1.56(c) more than three months prior to the filing of this Information Disclosure Statement.

Statement Under 37 CFR 1.704(d) (Patent Term Adjustment)

Applies to original applications (other than design) filed on or after May 29, 2000

- ☐ Each item of information contained in the Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart application and this communication was not received by any individual designated in § 1.56(c) more than thirty days prior to the filing of the Information Disclosure Statement.
- ☒ Enclosed herewith is form PTO-1449:
- ☐ Copies of the cited references are enclosed.
- ☒ Copies of cited references are enclosed except those entered in prior applications, U.S. Application No. 09/416,787, and U.S. Application No. 08/771,009, to which priority under 35 U.S.C. 120 is claimed. The earlier application contains copies of the cited references.
- ☐ The listed references were cited in the enclosed International Search Report in a counterpart foreign application.
- ☐ The "concise explanation" requirement (non-English references) for reference(s) [ ] under 37 CFR 1.98(a)(3) is satisfied by:
- ☐ the explanation provided on the attached sheet.
  - ☐ the explanation provided in the Specification.
  - ☐ submission of the enclosed International Search Report.
  - ☐ submission of the enclosed English-language version of a foreign Search Report and/or foreign Office Action.
  - ☐ the enclosed English language abstract.

☐ Applicant requests that the following non-published pending applications be considered:

Examiner's  
Initials

\_\_\_\_ U.S. Patent Application No. [ ], by [inventor(s)], filed [ ], Docket No.: [ ]  
\_\_\_\_ U.S. Patent Application No. [ ], by [inventor(s)], filed [ ], Docket No.: [ ]  
\_\_\_\_ U.S. Patent Application No. [ ], by [inventor(s)], filed [ ], Docket No.: [ ]

\_\_\_\_\_  
Examiner

\_\_\_\_\_  
Date

- ☐ A copy of each above-cited application, including the current claims, is enclosed.
- ☐ A copy of each above-cited application, including the current claims, is enclosed, except those entered in prior application, U.S. Application No. [ ], to which priority under 35 U.S.C. 120 is claimed.

The Examiner is requested to return a copy of the above list of pending applications indicating which references were considered with the next office communication.

It is requested that the information disclosed herein be made of record in this application.

Method of payment:

- ☐ A check for the fee noted above is enclosed, or the fee has been included in the check with the accompanying Reply. A copy of this Statement is enclosed.
- ☐ Please charge Deposit Account 08-0380 in the amount of \$[ ]. A copy of this Statement is enclosed.
- ☒ Please charge any deficiency in fees and credit any overpayment to Deposit Account 08-0380.

Respectfully submitted,

HAMILTON, BROOK, SMITH & REYNOLDS, P.C.

By 

Rodney D. Johnson  
Registration No.: 36,558  
Telephone: (978) 341-0036  
Facsimile: (978) 341-0136

Concord, MA 01742-9133

Dated: *January 3 2002*

PTO-1449 REPRODUCED

ATTORNEY DOCKET NO.  
2247.1001-007APPLICATION NO.  
09/851,502INFORMATION DISCLOSURE CITATION  
IN AN APPLICATION

January 3, 2002

(Use several sheets if necessary)

APPLICANT  
David B. Russell et al.FILING DATE  
May 8, 2001GROUP  
1732

## U.S. PATENT DOCUMENTS

EXAM- INER INI- TIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE IF APPROPRIATE
	AA	2,775,758	12/25/1956	Munz	343	17	5/25/51
	AB	3,428,503	2/18/1969	Beckerle	156	11	10/26/64
	AC	4,247,508	1/27/1981	Housholder	264	219	12/3/79
	AD	4,863,538	9/5/1989	Deckard	156	62.2	10/17/86
	AE	4,938,816	7/3/1990	Beaman et al.	156	62.2	9/5/89
	AF	4,944,817	7/31/1990	Bourell et al.	156	62.2	9/5/89
	AG	5,017,753	5/21/1991	Deckard	219	121.63	6/22/90
	AH	5,053,090	10/1/1991	Beaman et al.	156	62.2	7/2/90
	AI	5,076,869	12/31/1991	Bourell et al.	156	62.2	7/30/90
	AJ	5,088,047	2/11/1992	Bynum	364	474.24	10/16/89
	AK	5,127,037	6/30/1992	Bynum	378	4	8/15/90

## FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION YES NO
	AL	DE 4417083A1	23-NOV-1995	GERMANY			X
	AM	0431924A2	12-JUN-1991	EPO			
	AN	WO 92/08592	29-MAY-1992	WO			
	AO	WO 94/19112	1-SEP-1994	WO			
	AP	WO 94/26446	24-NOV-1994	WO			
	AQ	WO 95/34468	21-DEC-1995	WO			
	AL2	WO 97/28955	14-AUG-1997	WO			

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

	AR	Sanders Prototype, Inc., MODELMAKER II System, The high precision 3D modeling system ( <a href="http://www.sanders-prototype.com/mmii/mmii.htm">http://www.sanders-prototype.com/mmii/mmii.htm</a> ) (consisting of 8 pages).
	AS	Sanders Prototype, Inc., Sanders Prototype "MM-6PRO" System ( <a href="http://www.sanders-prototype.com/mm6pro.htm">http://www.sanders-prototype.com/mm6pro.htm</a> ) (consisting of 4 pages).

EXAMINER

DATE CONSIDERED

PTO-1449 REPRODUCED

ATTORNEY DOCKET NO.  
2247.1001-007APPLICATION NO.  
09/851,502

**INFORMATION DISCLOSURE CITATION  
IN AN APPLICATION**

JAN 23 2002

January 3, 2002

(Use several sheets if necessary)

APPLICANT  
David B. Russell et al.FILING DATE  
May 8, 2001GROUP  
1732

## U.S. PATENT DOCUMENTS

EXAM- INER INI- TIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE IF APPROPRIATE
	AA2	5,132,143	7-21-1992	Deckard	427	197	6/21/90
	AB2	5,155,321	10-13-1992	Grube et al.	219	121.6	11/9/90
	AC2	5,155,324	10-13-1992	Deckard et al.	219	121.64	11/9/90
	AD2	5,204,055	4-20-1993	Sachs et al.	419	2	12/8/89
	AE2	5,252,264	10-12-1993	Forderhase et al.	264	22	11/8/91
	AF2	5,296,062	3-22-1994	Bourell et al.	156	62.2	9/25/92
	AG2	5,316,580	5/31/1994	Deckard	118	110	7/10/92
	AH2	5,340,656	8/23/1994	Sachs et al.	428	546	4/9/93
	AI2	5,342,919	8/30/1994	Dickens, Jr. et al.	528	323	11/23/92
	AJ2	5,352,405	10/4/1994	Beaman et al.	419	45	12/18/92
	AK2	5,382,308	1/17/1995	Bourell et al.	156	62.2	3/21/94
	AA3	5,387,380	2/7/1995	Cima et al.	264	69	6/5/92
	AB3	5,490,882	2/13/1996	Sachs et al.	134	1	11/30/92
	AC3	08/707,693		Bredt et al.			9/4/96

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

	AT	Technology International Incorporated of Virginia, SBIR 95-1 SOLICITATION PROJECT SUMMARY ( <a href="http://sbir.gsfc.nasa.gov/95abstracts/08.07/951020.html">http://sbir.gsfc.nasa.gov/95abstracts/08.07/951020.html</a> ) (consisting of 1 page).
	AU	Sanders Prototype, Inc., MODEL-MAKER DESKTOP 3D Modeling System ( <a href="http://www.sanders-prototype.com/datasht.htm">http://www.sanders-prototype.com/datasht.htm</a> ) (consisting of 4 pages).
	AV	Sanders Prototype, Inc., SPI Model Maker™ 3D Modeling System Technical Description ( <a href="http://www.sanders-prototype.com/techdesc.htm">http://www.sanders-prototype.com/techdesc.htm</a> ) (consisting of 3 pages).
	AW	Sanders Prototype Inc., Sanders Prototype Incorporated Application Notes, ( <a href="http://www.sanders-prototype.com/appnotes.htm">http://www.sanders-prototype.com/appnotes.htm</a> ) (consisting of 2 pages).

EXAMINER

DATE CONSIDERED

RECEIVED  
FEB - 5 2002  
TECHNOLOGY CENTER 1700

APPLICATION NO.  
09/851,502

APPLICANT  
David B. Russell et al.

FILING DATE  
May 8, 2001

GROUP  
1732

January 3, 2002

(Use several sheets if necessary)

## U.S. PATENT DOCUMENTS

[illegible]

## FOREIGN PATENT DOCUMENTS

[illegible]

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)


EXAMINER

DATE CONSIDERED